COPPER MOUNTAIN COLLEGE 2021-2022

CALIFORNIA STATE UNIVERSITY (CSU)

transfer, to take additional lower-division general education courses. All courses must be completed with a grade of "C" or better. CERTIFICATION: GE Certification means that CMC has verified that a student has completed lower-division requirements for the CSU system. Certification is important, without certification students will be held to general education requirements specific to the CSU campus to which they transfer. GE certification is not required for transfer. Some high unit majors, for example engineering, may recommend prioritizing major preparal classes over GE certification. See a Counselor for more information. LEGEND: Courses without prerequisites are italicized *Courses that appear in multiple areas below, can only be counted in one area. *Transfer credit may be limited by UC, CSU or both. Consult with a counselor. M = Mety(Completed IP = in Progress N = Need to Complete AREA A ENGLISH HANGUAGE COMMUNICATION A! Course, 3 semestre units in Course from A1, A2, A3 (9 semester units) 1 course from A1, A2, A3 (9 semester units) A1 ORAL COMMUNICATION (1 course, 3 semester units): ENG 003A College Composition (3) A2 WRITTEN COMMUNICATION (1 course, 3 semester units): ENG 003A College Composition (3) A3 CRITICAL THINKING (1 course 3 -semester units): ENG 003A College Composition (3) A3 CRITICAL THINKING (1 course 3 -semester units): ENG 003A College Composition (3) A6 CRITICAL THINKING (1 course 3 -semester units): ENG 003A College Composition (3) A7 CRITICAL THINKING (1 course 3 -semester units): ENG 003A College Composition (4) A7 OLD DESCRIPTION (4) Course (4) Course (5) Course (6) Course (6) Course (7) Course		1							
CERTIFICATION: GE Certification means that CMC has verified that a student has completed lower-division requirements for the CSU system. Certification is important, without certification students will be held to general education requirements specific to the CSU campus to which they transfer. GE certification is not required for transfer. Some high unit majors, for example engineering, may recommend prioritizing major preparal classes over GE certification. See a Counselor for more information. LEGEND: Courses without prerequisites are italicized "Courses that appear in multiple areas below, can only be counted in one area. +Transfer credit may be limited by UC, CSU or both. Consult with a counselor. M = Met/Completed IP = In Progress N = Need to Complete AREA A ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING 1 course from A1, A2, A3, 43 generater units A1 ORAL COMMUNICATION 1: course, 3 semester units): SP 001 Interpersonal Communication (3) SP 004 Public Speaking (3). SP 015 Intercultural Communication (3) A2 WRITTEN COMMUNICATION 1: course, 3 semester units): SP 001 Interpersonal Communication (3) SP 004 Public Speaking (3). SP 015 Intercultural Communication (3) A3 CRITICAL THINKING (1 course, 3 semester units): SP 001 Interpersonal Communication (3) SP 004 Public Speaking (3). SP 015 Intercultural Communication (3) A2 WRITTEN COMMUNICATION 1: course, 3 semester units): SP 001 Interpersonal Communication (3) SP 004 Public Speaking (3). SP 015 Intercultural Communication (3) A2 CRITICAL THINKING (1 course 3 - semester units): SP 001 Interpersonal Communication (3) SP 004 Public Speaking (3). SP 015 Intercultural Communication (3) AREA B SCIENTIFIC INQUINY AND QUANTITATIVE REASONING 1 course from 81, 82, 83 and 84 (9 semester units) B1 PHYSICAL A 001 Descriptive Astronomy (3) B1 DESCRIPTIVE REASONING A 001 Descriptive Astronomy	M	IP	N						
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BI 004L Elements of Biology Lab (1) BI 015 General Microbiology (5) NR 001 Conservation of Natural Resources (3) B3 LABORATORY Met with the completion of a laboratory course from B1 or B2. Courses with 4 or more units include a lab which meets this requiremen B4 MATHEMATICS/QUANTITATIVE REASONING MATH 001A Calculus (4) MATH 001A Calculus (4) MATH 001B Calculus (4) MATH 001B Calculus (5) (Effective Fall 2014) MATH 002A Multivariate Calculus (5) (Effective Fall 2014) MATH 005 Trigonometry (4) MATH 002B Linear Algebra (4) (Effective Fall 2014) MATH 001 College Algebra (4) AREA C ARTS & HUMANITITES Minimum of 3 courses, with at least one course from C1, one course from C2, and the third course from C1 or C2 (9 semester units) C1 ARTS ART 003A Introduction to Two-Dimensional Design (3) ART 0051 Mestern Art History: Renaissance to Contemporary (3) ART 051 Mestern Art History: Renaissance to Contemporary Art with a Global Perspective (3) ART 0053 History of Photography (3) ART 0053 History of Photography (3) ART 0053 Introduction to the Visual Arts of Non-western Cultures (3) TA 001 Introduction to Theatre (3) TA 001 Introduction to Theatre (3) ART 0053 Introduction to the Visual Arts of Non-western Cultures (3) TA 001 Introduction to Theatre (3)				ANTH 001 Introduction to Physical Anthropology (3)		* * *			
B3 LABORATORY Met with the completion of a laboratory course from B1 or B2. Courses with 4 or more units include a lab which meets this requiremen B4 MATHEMATICS/QUANTITATIVE REASONING MATH 001A Calculus (4) MATH 001A Calculus (4) MATH 001B Calculus (4) MATH 001B Calculus (5) MATH 002A Multivariate Calculus (5) (Effective Fall 2014) MATH 002A Multivariate Calculus (5) (Effective Fall 2014) MATH 002B Linear Algebra (4) (Effective Fall 2014) MATH 002B Linear Algebra (4) (Effective Fall 2014) MATH 001A Calculus (5) (Effective Fall 2014) MATH 001B Calculus (6) MATH 001B Calculus (7) MATH 001B Calculus (8) MATH 001B Calculus (9) MATH 001B						, 0, , ,			
B4 MATHEMATICS/QUANTITATIVE REASONING MATH 001A Calculus (4) MATH 001B Calculus (4) MATH 001B Calculus (5) MATH 001B Calculus (5) MATH 002A Multivariate Calculus (5) (Effective Fall 2014) MATH 001B Calculus (5) (Effective Fall 2014) MATH 001B Calculus (5) (Effective Fall 2014) MATH 002A Multivariate Calculus (5) (Effective Fall 2014) MATH 01C Ollege Algebra (4) MATH 01C Ollege Alg					5. ()				
MATH 001A Calculus (4) MATH 001B Calculus (4) MATH 001B Calculus (4) MATH 001B Calculus (5) (Effective Fall 2014) MATH 002A Multivariate Calculus (5) (Effective Fall 2014) MATH 005 Trigonometry (4) MATH 0010 College Algebra (4) MATH 010 College				•	•	·			
MATH 001B Calculus (4) MATH 002A Multivariate Calculus (5) (Effective Fall 2014) MATH 002B Linear Algebra (4) (Effective Fall 2014) MATH 002B Linear Algebra (4) (Effective Fall 2014) MATH 001B Calculus (5) (Effective Fall 2014) MATH 002A Multivariate Calculus (5) (Effective Fall 2014) MATH 001B Calculus (5) (Effective Fall 2014) MATH 002A Multivariate Calculus (5) (Effective Fall 2014) MATH 001D College Algebra (4) SOC 003 Fundamentals of Statistics (4) AREA C ARTS & HUMANITITES Minimum of 3 courses, with at least one course from C1, one course from C2, and the third course from C1 or C2 (9 semester units) C1 ARTS ART 003A Introduction to Two-Dimensional Design (3) ART 051 Western Art History: Renaissance to Contemporary (3) ART 052 History of Art: Modern to Contemporary Art with a Global Perspective (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3) ART 054 Introduction to Two-Dimensional Design (4) ART 054 Introduction to Two-Dimensional Design (5) ART 055 Introduction to the Visual Arts of Non-western Cultures (6) ART 054 Introduction to Two-Dimensional Design (7) ART 055 Introduction to the Visual Arts of Non-western Cultures (7) ART 056 Introduction to Two-Dimensional Design (8) ART 057 Introduction to Two-Dimensional Design (8) ART 057 Introduction to Two-Dimensional Design (9) ART 058 Introduction to Two-Dimensional Design (9) ART 059 Introduction to Two-Dimensional Design (9)					• • • • • • • • • • • • • • • • • • • •				
MATH 002A Multivariate Calculus (5) (Effective Fall 2014) MATH 002A Multivariate Calculus (5) (Effective Fall 2014) MATH 002B Linear Algebra (4) (Effective Fall 2014) AREA C ARTS & HUMANITITES Minimum of 3 courses, with at least one course from C1, one course from C2, and the third course from C1 or C2 (9 semester units) C1 ARTS ART 003A Introduction to Two-Dimensional Design (3) ART 010 Introduction to Art (3) ART 033 History of Photography (3) ART 051 Western Art History: Renaissance to Contemporary Art with a MUS 005 History of Rock 'N' Roll (3) ART 052 History of Art: Modern to Contemporary Art with a MUS 010 Introduction to Music (3) TA 001 Introduction to Theatre (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3) ART 053 Introduction to Theatre (3)				, ,	,	MATH 014 Statistical Methods (4) MATH 016 Mathematics for Elementary School Teachers (3)			
MATH 002B Linear Algebra (4) (Effective Fall 2014) MATH 010 College Algebra (4) SOC 003 Fundamentals of Statistics (4) AREA C ARTS & HUMANITIES Minimum of 3 courses, with at least one course from C1, one course from C2, and the third course from C1 or C2 (9 semester units) C1 ARTS ART 003A Introduction to Two-Dimensional Design (3) ART 010 Introduction to Art (3) ART 010 Introduction to Art (3) ART 033 History of Photography (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3 TA 002 Action U(2))				· ·	* *	(Effective Spring 2015)			
Minimum of 3 courses, with at least one course from C1, one course from C2, and the third course from C1 or C2 (9 semester units) C1 ARTS ART 003A Introduction to Two-Dimensional Design (3) ART 051 Western Art History: Renaissance to Contemporary (3) ART 052 History of Art: Modern to Contemporary Art with a Global Perspective (3) ART 033 History of Photography (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3 TA 002 Action (12))				, , ,	MATH 010 College Algebra (4)	SOC 003 Fundamentals of Statistics (4)			
C1 ARTS ART 003A Introduction to Two-Dimensional Design (3) ART 010 Introduction to Art (3) ART 033 History of Photography (3) ART 033 History of Photography (3) ART 051 Western Art History: Renaissance to Contemporary (3) ART 052 History of Art: Modern to Contemporary Art with a Global Perspective (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3)									
ART 003A Introduction to Two-Dimensional Design (3) ART 010 Introduction to Art (3) ART 033 History of Photography (3) ART 034 History of Photography (3) ART 055 Western Art History: Renaissance to Contemporary (3) ART 056 History of Art: Modern to Contemporary Art with a Global Perspective (3) ART 058 Introduction to the Visual Arts of Non-western Cultures (3) TA 002 Action (12)									
ART 003A introduction to Two-Dimensional Design (3) ART 052 History of Art: Modern to Contemporary Art with a ART 010 Introduction to Music (3) Global Perspective (3) ART 033 History of Photography (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3) TA 003 Action (42)									
ART 010 Introduction to Art (3) Global Perspective (3) ART 033 History of Photography (3) ART 033 History of Photography (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3) ART 053 Introduction to Theatre (3)				ART 003A Introduction to Two-Dimensional Design (3)					
ART 033 History of Photography (3) ART 053 Introduction to the Visual Arts of Non-western Cultures (3 TA 002 Acting U2)				ART 010 Introduction to Art (3)		, ,			
1 1 ADT OFO Ulatery of Martery Art. Duckistery, Addula Area (2)					. , ,	TA 001 Introduction to Theatre (3) TA 002 Acting I (3)			
ART 050 History of Western Art: Prehistory - Middle Ages (3)									

	AREA C ARTS & HUMANITITES						
	Minimum of 3 courses, with at least one course from C1, one course from C2, and the third course from C1 or C2 (9 semester units)						
M	IP	N	C2 HUMANITIES ASL 001 Elementary American Sign Language I (5) ASL 002 Elementary American Sign Language II (5) ASL 003 Intermediate American Sign Language I (4) ASL 004 Intermediate American Sign Language II (4) ENG 001B Composition & Literature (3) ENG 010A American Literature I (3) ENG 010B American Literature II (3) ENG 011A Survey of English Literature: Old English to 18 th Century (3) ENG 011B Survey of English Literature: Romantic-Postmodernism (3)	ENG 012A World Literature I: Beg-1650 (3) ENG 012B World Literature II: The Modern World (1650-Present) (3) HIST 003* History of World Civilizations I (3) HIST 004* History of World Civilizations II (3) HIST 017* U.S. History through Reconstruction (3) HIST 018*U.S. History from Reconstruction to Present (3) PHIL 006 Introduction to Philosophy (3) PHIL 008 Philosophy from Ancient Times to the Renaissance (3) PHIL 012* Religions of the World (3)	PHIL 013 Perspectives on Death & Dying (3) PHIL 014 Introduction to Ethics (3) SP 002 Oral Interpretation of Literature (3) (Effective Fall 2020) SPAN 001 Elementary Spanish (5) SPAN 002* Elementary Spanish (5) SPAN 003* Intermediate Spanish (4) SPAN 004* Intermediate Spanish (4) TA 001 Introduction to Theatre (3)		
			ONE ADDITIONAL COURSE FROM C1 OR C2	A D SOCIAL & BEHAVIORAL SCIENCES			
				mum of 2 courses (6 semester units)			
			D0 – Sociology & Criminology CJ 002 Criminal Law (3) (Effective Spring 2011) CJ 010 Juvenile Delinquency (3) (Effective Spring 2011) CJ 032 Introduction to Criminology (3) (Effective Spring 2011) ^EGSJ 014 Introduction to Race and Ethnicity (3) SOC 001 Introduction to Sociology (3) SOC 002 Social Problems (3) ^SOC 014 Introduction to Race and Ethnicity (3) D1 – Anthropology & Archeology ANTH 002 Cultural Anthropology (3) ANTH 003 Archaeology: An Introduction to Prehistory (3) D2 – Economics ECON 001 Principles of Macroeconomics (3) ECON 002 Principles of Microeconomics (3) D3 – Ethnic Studies SOC 014 Introduction to Race and Ethnicity (3)	D4 – Gender Studies *PSY 010 Introduction to Marriage & Family (3) *SOC 010 Introduction to Marriage & Family (3) D5 – Geography GEOG 002 Cultural Geography (3) GEOG 007 World Regional Geography (3) (Effective Fall 2015) D6 – History ^EGSJ 020 Native American Studies (3) HIST 003 History of World Civilizations I (3) HIST 004 History of World Civilizations II (3) HIST 017 U.S. History Through Reconstruction (3) HIST 018 U.S. History from Reconstruction to Present (3) HIST 019 California History (3) ^HIST 020 Native American Studies (3) D7 – Interdisciplinary Social or Behavioral Science CD 010 Child Development (4) (Effective Fall 2010) CD 012 Child, Family, & Community (3) (Effective Fall 2012)	PSY 005 Behavioral & Social Science Research Methods (4) SP 015 Intercultural Communication (3) D8 – Political Science, Government and Legal Institutions CJ 001 Introduction to Criminal Justice (3) PS 001 Introduction to Government (3) PS 002 Introduction to Comparative Governments (3) PS 004 Introduction to International Relations (3) D9 – Psychology PSY 001 General Psychology (3) PSY 003 Developmental Psychology (3) PSY 005 Behavioral & Social Science Research Methods (4) PSY 012 Human Sexuality (3) (Effective Fall 2013) PSY 033 Personal & Social Adjustment (3) ^EGSJ 014 and SOC 014; EGSJ 020 and HIST 020 are comparable courses. Therefore, credit is awarded for only one course.		
			AREA E LIFE	LONG LEARNING AND SELF-DEVELOPMENT			
			CD 010 Child Development (4) (Effective Fall 2010) CD 044 Child Health, Safety, & Nutrition (3) (Effective Fall 2012) HS 001 Personal and Community Health (3) HS 013 General Nutrition (3)	Minimum of 3 semester units. KIN 001 Introduction to Kinesiology (3) (Effective Spring 2020) PHIL 013 Perspectives on Death & Dying (3) PSY 003 Developmental Psychology (3) ^PSY 010 Introduction to Marriage & Family (3) PSY 012 Human Sexuality (3)	PSY 033 Personal and Social Adjustment (3) ^SOC 010 Introduction to Marriage & Family (3) STDV 065 College and Personal Success (3) (Effective Fall 2013) ^PSY 010 and SOC 010 are comparable courses. Therefore, credit is awarded for only one course.		
				AREA F ETHNIC STUDIES			
	Minimum of 3 semester units. ^EGSJ 020 Native American Studies (3) ^EGSJ 020 and HIST 020 are comparable courses.						
	^EGSJ 020 Native American Studies (3) ^EGSJ 020 Native American Studies (3) Therefore, credit is awarded for only one course.						

CSU GRADUATION REQUIREMENTS - U.S. History & American Institutions

1 course from GROUP 1 and 1 course from GROUP 2 GROUP 1: PS 1 GROUP 2: HIST 17, 18

Computer Science ADT

Semester: Fall	Year:		Semester: Spring Year:	
COURSE		UNITS	COURSE	UNITS
CIS 70A Comp. Bus. Applicat	CIS 70A Comp. Bus. Applications CS 73 Intro to Comp. Sci.		CS 86 Visual Basic I	3.00
CS 73 Intro to Comp. Sci			MATH 12 Pre-Calculus	5.00
ENG 3A College Composit	ion	3.00	ENG 1B Comp. & Literature	3.00
SP 1 Interpersonal Comn	n.	3.00	PSY 1 General Psychology	3.00
			EGSJ 20 Native American Studies	3.00
TOTAL	L UNITS	12.00	TOTAL UNITS	17.00
Semester: Fall	Year:		Semester: Spring Year:	
COURSE		UNITS	COURSE	UNITS
CS 87 Assembler Languag	ge	3.00	CS 89A C++ Programming II	3.00
CS 89 C++ Programming	I	3.00	MATH 1B Calculus	4.00
MATH 1A Calculus	MATH 1A Calculus		PH 4A Engineering Physics	4.00
ANTH 1 Intro to Phys. Anthro	ANTH 1 Intro to Phys. Anthropology		MATH 4 Discrete Structures	3.00
PSY 3 Developmental Psy	ch.	3.00		
TOTA	L UNITS	16.00	TOTAL UNITS	14.00
c . Fall	v		C Covins	
Semester: Fall COURSE	Year:	UNITS	Semester: Spring Year: COURSE	UNITS
PH 4B Engineering Physic	CC	4.00	PHIL 13 Death & Dying	3.00
MATH 2A Multivariate Calculus		5.00	HIST 17 U.S. History	3.00
		3.00	PS 1 Intro. to Government	3.00
MUS 5 History of Pock 'N'	Doll		I F3 I IIII O. LO GOVEI III I EI IL	3.00
MUS 5 History of Rock 'N'				
MUS 5 History of Rock 'N' SOC 4 Analysis/Crit. Think		3.00		

15.00

TOTAL UNITS

Notes: Additional courses need to meet prerequisites: CIS 070A, CS 073, MATH 012 & MATH 002A (Co-Requisitie). Highly suggested students take PS 001 to meet American Institutions requirement. If student is transfering to UC may need foreign language.

9.00

TOTAL UNITS

COMPUTER SCIENCE

There is strong demand for Computer Science majors in the work force. It is estimated that there will be 20 openings for every Computer Science graduate in the US next year. The main reason for the rapid growth is a large increase in the demand for computer software. These entry level job opportunities have excellent salary and benefits with no job experience required.

CMC offers up-to-date training with transfer degrees and certificates that will prepare you for a four-year school or the job market.

Program Student Learning Outcomes

Upon successful completion of this program students will be able to:

- 1. Produce computer applications using structured programming techniques and object oriented design. (Institutional SLOs: Critical Thinking and Information Competency)
- 2. Critically apply, analyze, and evaluate fundamental concepts of software applications and hardware development. (Institutional SLOs: Critical Thinking and Information Competency)
- 3. Articulate the historical evolution of computer systems, including the legal, moral, and ethical issues associated with computers. (Institutional SLOs: Critical Thinking and Ethics)
- 4. Design and create solutions to a real world situation using the appropriate software. (Institutional SLOs: Information Competency)



Associate in Science in COMPUTER SCIENCE

for transfei

The Associate in Science in Computer Science for Transfer degree is designed for students pursuing degrees in Computer Science or Computer Engineering. Successful completion of the transfer degree in Computer Science guarantees the student acceptance to a local California State University to pursue a baccalaureate degree in Computer Science or a related field.

This degree includes the following completion requirements:

- (1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - (A)TheIntersegmentalGeneralEducationTransferCurriculum (IGETC) or the California State University General Education-Breadth Requirements.
 - (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
- (2) Obtainment of a minimum grade point average of 2.0.

Program Student Learning Outcomes

Upon successful completion of this program students will be able to:

- Understand the ethical, mathematical, and physical concepts that underlie computer science.
- 2. Understand the different levels of abstraction that comprise Computer Science.
- Create efficient, working computer programs that use fundamental programming constructs to solve real-life problems.

-1.1

_	Dept. /No.	Title	Units
	Required Cou	urses:	
	CS 087	Assembler Language Programming	3
	CS 089	C++ Programming I	3
	CS 089A	C++ Programming II	3
	MATH 001A	Calculus	
	MATH 001B	Calculus	4
	MATH 004	Discrete Structures	3
	PH 004A	Physics for Scientists and Engineers	4
	PH 004B	Physics for Scientists and Engineers	4
		urses	
	CSU or IGETO	General Education Requirements	37-39
Transferable elective units as needed.			
	MINIMUM T	RANSFERABLE UNITS	60
	Advisor:	J. Powell	

ASSOCIATE IN SCIENCE IN COMPUTER SCIENCE

with emphasis on employment preparation and transfer

Dept. /No.	Title	Units			
Required Courses:					
CS 073 CS 086 CS 087 CS 089 CS 089A	Introduction to Computer Science	3 3 3			
MATH 002A PH 004A PH 004B	Multivariate Calculus	5 4			
Required Courses					
MINIMUM TRANSFERABLE UNITS60 Advisor: J. Powell					